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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/218,085 12/22/98 WALKER

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TM02/0727

EXAMINER

WASYLCHAK, S

ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

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Office Action Summary

Application No. 09/218,085	Applicant(s) WALKER et al
Examiner WASYLCHAK	Group Art Unit 2164

—The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address—

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Status

- ☐ Responsive to communication(s) filed on 12/22/98
- ☐ This action is **FINAL**.
- ☐ Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- ☒ Claim(s) 1-51 is/are pending in the application.
- Of the above claim(s) _____ is/are withdrawn from consideration.
- ☐ Claim(s) _____ is/are allowed.
- ☒ Claim(s) 1-51 is/are rejected.
- ☐ Claim(s) _____ is/are objected to.
- ☐ Claim(s) _____ are subject to restriction or election requirement.

Application Papers

- ☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.
- ☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.
- ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- ☒ The specification is objected to by the Examiner.
- ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119 (a)-(d)

- ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- ☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been received.
- ☐ received in Application No. (Series Code/Serial Number) _____
- ☐ received in this national stage application from the International Bureau (PCT Rule 1.7.2(a)).

*Certified copies not received: _____

Attachment(s)

- ☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). _____
- ☐ Interview Summary, PTO-413
- ☐ Notice of Reference(s) Cited, PTO-892
- ☐ Notice of Informal Patent Application, PTO-152
- ☐ Notice of Draftsperson's Patent Drawing Review, PTO-948
- ☐ Other _____

Office Action Summary

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DETAILED ACTION

1. After further review, Examiner is in error with respect to 35 USC 102 rejections for claims 2-9, 14, 15, 20-24, 29, 35-39, 44 and 45 as recited in the first office action. Such claims have all been rejected under 35 USC 103.

Specification

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed. The title is too generic. "Product identity concealment" exists in every independent claim; wording to that effect should be incorporated in the title. MPEP 606.01.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-12 and 14-51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Picioccio et al (US 5,997,236) and in view of official notice.

As per Claim 1,

Picioccio discloses a method for selling a product from a vending machine, the product identity being concealed at the time of offer, the method comprising:

- a. maintaining a database of product data, including normal price data and

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minimum acceptable price data for each of a plurality of products; / col 9, L 1-4, 56-61.

Picioccio does not explicitly teach normal price data or minimum acceptable price data for each of a plurality of products. However, official notice is taken that both normal price data and minimum acceptable price data for each of a plurality of products is old and well known in the retail and microeconomic arts. It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to use such data to insure that the breakeven point is met so that the vending machine is not operating at a loss.

b. identifying a monetary value available for purchasing a product; / col 9, L 19-29

c. selecting a product from among the plurality of products based on the monetary value and the minimum acceptable price data; / col 1, L 24-27. Picioccio does not teach a minimum acceptable price. However, official notice is taken that minimum acceptable price data for each of a plurality of products is old and well known in the retail and microeconomic arts. It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to use such data to insure that the breakeven point is met so that the vending machine is not operating at a loss.

d. outputting via an output device an offer of the product to a consumer; / col 9, L 52-54

e. determining whether the consumer accepts the offer; and / col 9, L 52-54

f. dispensing the product if the consumer accepts the product, thereby revealing the identity of the product to the consumer. / col 9, L 52-56

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As per Claim 2,

Picioccio discloses receiving the monetary value from the consumer. / Picioccio as applied to claim 1 and col 3, L 37-50; col 4, L 43-47

As per Claim 3,

Picioccio discloses that the step of receiving the monetary value includes receiving a credit card account identifier. / Picioccio as applied to claim 1, 2 and col 3, L 37-50; col 4, L 43-47

As per Claim 4,

Picioccio discloses that the step of receiving the monetary value includes receiving a smart card identifier. / refer to reasoning directly above

As per Claim 5,

Picioccio discloses that the step of receiving the monetary value includes receiving an electronic representation of currency. / refer to reasoning directly above

As per Claim 6,

Picioccio discloses that the database includes category data for each of the plurality of products, and the step of selecting is further based on the category data. / Picioccio as applied to claim 1 and col 9, L 30-36

As per Claim 7,

Picioccio discloses receiving a category selection from the consumer. / Picioccio as applied to claim 1, 6 and col 9, L 24-29

As per Claim 8,

Picioccio discloses the step of selecting a product includes

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selecting a combination of products. / Picioccio as applied to claim 1 and col 2, L 26-37

As per Claim 9,

Picioccio discloses that the step of maintaining includes determining minimum acceptable price data based on sales activity. / Picioccio as applied to claim 1 and col 9, L 56-57

As per Claim 10,

Picioccio discloses that the step of identifying includes receiving minimum acceptable price data from an operator. / Picioccio as applied to claim 1 and col 1, L 39-53. Picioccio does not explicitly disclose minimum acceptable price data. Official notice is taken that this price model is well known in the retail and microeconomic art. It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to use this price model to assure profitability or at least meeting the breakeven point.

As per Claim 11,

Picioccio discloses that the step of determining whether the monetary value is at least as great as the lowest minimum acceptable price, and the step of offering is performed only upon determining that the monetary value is at least as great as the lowest minimum acceptable price. / Picioccio as applied to claim 1 and col 1, L 44-53; col 5, L 20-24. Picioccio does not explicitly do any price comparison with lowest minimum acceptable price. However, official notice is taken that this form of price comparison is old and well known in the retail and microeconomic art. It would have been obvious to one of ordinary skill in the art at the time of

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applicant's invention to use this price markup to assure this vending machine operates as a profitable profit or breakeven center.

As per Claim 12,

Picioccio discloses that the step of determining includes providing a predetermined amount of time during which the consumer may refuse to accept the product. / Picioccio as applied to claim 1 and col 9, L 1-4. Picioccio does not explicitly disclose the time delay for optional refusal. However, Picioccio does disclose the component that may create a time delay, the PLC (col 9, L 1-4). Furthermore, official notice is taken that it is old and well known in the vending art for a customer to refuse to select and push the return change button. It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to use a microcontroller or PLC to create a time delay feature for possible rejection of the product to allow more choices for the customer.

As per Claim 14,

Picioccio discloses that the database includes profitability data for each of the plurality of products and the step of selecting is further based on the profitability data. / Picioccio as applied to claim 1 and col 9, L 56-67

As per Claim 15,

Picioccio discloses that the database includes demand data for each of the plurality of products and the step of selecting is further based on the demand data. / Picioccio as applied to claim 1 and col 9, L 56-67

As per Claim 16,

Picioccio discloses a method for selling a product from a vending machine, the product identity being concealed at the time of offer, the method comprising:

a. maintaining a database of product data, including normal price data and minimum acceptable price data for each of a plurality of products; / refer to reasoning under claim 1 a

b. receiving a first monetary value from a consumer; / refer to reasoning under claim 2

c. receiving a selection of a first product from the consumer; / refer to reasoning under claim 1 c

d. retrieving a price of the first product from the database of product data; / refer to reasoning under claim 1 d

e. calculating a second monetary value, the second monetary value being the difference between the first monetary value and the price of the first product. / col 1, L 44-54; col 5, L 20-23

f. selecting a second product from among the plurality of products based on the second monetary value and the minimum acceptable price data; / col 1, L 24-28

Picioccio does not explicitly teach the option of selecting a second product from among the plurality of products based on the second monetary value and the minimum acceptable price data. However, official notice is taken that crediting "change" or refunds to the next payment is old and well known in the credit and debt payment (as in the income tax refund option to credit the refund to the next year tax liability) art. It

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would have been obvious to one of ordinary skill in the art at the time of applicant's invention to use refunds for complementary purchases and thus to maximize sales.

g. outputting via an output device an offer of the second product to the consumer; / refer to reasoning under claim 1 d

h. determining whether the consumer accepts the offer; and / refer to reasoning under claim 1 e

i. dispensing the product if the consumer accepts the product, thereby revealing the identity of the product to the consumer. / refer to reasoning under claim 1 f

As per Claim 17,

Picioccio discloses a method comprising:

calculating an additional amount, the additional amount being the difference between the second monetary value and the minimum acceptable price of the second product; and / Picioccio as applied to claim 16 and Picioccio again in col 1, L 44-53

prompting the consumer to supply funds at least equal to the additional amount. / Picioccio as applied to claim 16 and again in Picioccio in col 1, L 44-47.

Picioccio does not explicitly teach "upsell" or the handling of change or refund from the vending machine. However, official notice is taken that upsell is old and well known in the retail art. It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to utilize the upsell for a complementary product and thus to maximize sales.

As per Claim 18,

Picioccio discloses that the database includes complementary product data for each of the plurality of products and wherein the step of selecting is further based on the first product and the complementary product data for the first product. / Picioccio as applied to claim 16 and again in Picioccio: col 5, L 20-24. Picioccio does not teach complementary products. However, official notice is taken that complementary products are old and well known in the food retail industry. It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to use complementary data for marketing feedback to determine the degree of correlation among various complementary pairs to increase sales.

As per Claim 19,

Picioccio discloses an automatic sales machine for selling a product, the product identity being concealed at the time of offer, the sales machine comprising:

a. a processor; / Picioccio: col 5, L 20-26

b. a memory connected to said processor storing a program to control the operation of said processor; / refer to reasoning directly above

the processor operative with the program in the memory to:

c. maintain a database of product data, including normal price data and minimum acceptable price data for each of a plurality of products; / refer to reasoning under claim 1 a.

d. identify a monetary value available for purchasing a product; / refer to reasoning under claim 1 b.

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e. select a product from among the plurality of products based on the monetary value and the minimum acceptable price data; / refer to reasoning under claim 1 c.

f. output via an output device an offer of the product to a consumer; / refer to reasoning under claim 1 d.

g. determine whether the consumer accepts the offer; and / refer to reasoning under claim 1 e.

h. dispense the product if the consumer accepts the product, thereby revealing the identity of the product to the consumer. / refer to reasoning under claim 1 f.

As per Claim 20,

Picioccio discloses the processor is operative with the program in the memory to determine the monetary value received from the consumer. / Picioccio as applied to claim 19 and again in Picioccio: col 5, L 20-26

As per Claim 21,

Picioccio discloses that the database includes category data for each of the plurality of products and the step of selecting is based on the category data. / Picioccio as applied to claim 19, 20 and refer to reasoning under claim 6

As per Claim 22,

Picioccio discloses the processor is operative with the program in the memory to receive a category selection from the consumer. / Picioccio as applied to claim 19 and refer to reasoning under claim 7

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As per Claim 23,

Picioccio discloses the processor is operative with the program in the memory to select a combination of products. / Picioccio as applied to claim 19 and refer to reasoning under claim 8

As per Claim 24,

Picioccio discloses the processor is operative with the program in the memory to determine minimum acceptable price data based on sales activity. / Picioccio as applied to claim 19 and refer to reasoning under claim 9

As per Claim 25,

Picioccio discloses the processor is operative with the program in the memory to receive minimum acceptable price data from an operator. / Picioccio as applied to claim 19 and refer to reasoning under claim 10

As per Claim 26,

Picioccio discloses the processor is operative with the program in the memory to determine whether the monetary value is at least as great as the lowest minimum acceptable price, and to offer the product performed only upon determining that the monetary value is at least as great as the lowest minimum acceptable price. / Picioccio as applied to claim 19 and refer to reasoning under claim 11

As per Claim 27,

Picioccio discloses the processor is operative with the program in the memory to provide a predetermined amount of time during which the consumer may refuse to

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accept the product. / Picioccio as applied to claim 19 and refer to reasoning under claim 12

As per Claim 28,

Picioccio discloses the database includes expiration data for each of the plurality of products and the processor is further operative with the program in the memory to select the product based on the expiration data. / Picioccio as applied to claim 19 and refer to reasoning under claim 13

As per Claim 29,

Picioccio discloses the database includes profitability data for each of the plurality of products and the processor is further operative with the program in the memory to select the product based on the profitability data. / Picioccio as applied to claim 19 and refer to reasoning under claim 14

As per Claim 30,

Picioccio discloses that the database includes demand data for each of the plurality of products and the processor is further operative with the program in the memory to select the product based on the demand data. / Picioccio as applied to claim 19 and refer to reasoning under claim 16

As per Claim 31,

Picioccio discloses an automatic sales machine for selling a product, the product identity being concealed at the time of offer, the sales machine comprising:

a processor; / refer to reasoning under claim 19 a.

a memory connected to said processor storing a program to control the

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operation of said processor; / refer to reasoning under claim 19 b.

the processor operative with the program in the memory to:

maintain a database of product data, including normal price data and minimum acceptable price data for each of a plurality of products; / refer to reasoning under claim 16 a.

receive a first monetary value from a consumer; / refer to reasoning under claim 16 b.

receive a selection of a first product from the consumer; / refer to reasoning under claim 16 c.

retrieve a price of the first product from the database of product data; / refer to reasoning under claim 16 d.

calculate a second monetary value, the second monetary value being the difference between the first monetary value and the price of the first product / refer to reasoning under claim 16 e.

select a second product from among the plurality of products based on the second monetary value and the minimum acceptable price data; / refer to reasoning under claim 16 f.

output via an output device an offer of the second product to the consumer; / refer to reasoning under claim 16 g.

determine whether the consumer accepts the offer; and / refer to reasoning under claim 16 h.

dispense the product if the consumer accepts the product, thereby revealing the

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identity of the product to the consumer. / refer to reasoning under claim 16 i.

As per Claim 32,

Picioccio discloses the processor is operative with the program in the memory to:

calculate an additional amount, the additional amount being the difference between the second monetary value and the minimum acceptable price of the second product; and / Picioccio as applied to claim 31 and refer to reasoning under claim 17

prompt the consumer to supply funds at least equal to the additional amount. /

Picioccio as applied to claim 31 and refer to reasoning under claim 17

As per Claim 33,

Picioccio discloses that the database further includes complementary product data for each of the plurality of products and the processor is operative with the program in the memory to select the product based on the initial product and the complementary product data for the initial product. / Picioccio as applied to claim 31 and refer to reasoning under claim 18

As per Claim 34,

Picioccio discloses an automatic sales machine for selling a product, the product identity being concealed at the time of offer, the sales machine comprising:

means for maintaining a database of product data, including normal price data and minimum acceptable price data for each of a plurality of products; / refer to reasoning under claim 1 a.

means for identifying a monetary value available for purchasing a product; / refer to reasoning under claim 1 b.

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means for selecting a product from among the plurality of products based on the monetary value and the minimum acceptable price data; / refer to reasoning under claim 1 c.

means for outputting via an output device an offer of the product to a consumer; / refer to reasoning under claim 1 d.

means for determining whether the consumer accepts the offer; and / refer to reasoning under claim 1 e.

means for dispensing the product if the consumer accepts the product, thereby revealing the identity of the product to the consumer. / refer to reasoning under claim 1 f.

As per Claim 35,
Picioccio discloses comprising the means for receiving the monetary value from the consumer. / Picioccio as applied to claim 34 and refer to reasoning under claim 5

As per Claim 36,
Picioccio discloses the database includes category data for each of the plurality of products and the means for selecting is further based on the category data. / Picioccio as applied to claim 34 and refer to reasoning under claim 6

As per Claim 37,
Picioccio discloses the comprising means for receiving a category selection from the consumer. / Picioccio as applied to claim 34 and refer to reasoning under claim 7

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As per Claim 38,

Picioccio discloses the means for selecting a product includes means for selecting a combination of products. / Picioccio as applied to claim 34 and refer to reasoning under claim 8

As per Claim 39,

Picioccio discloses the means for maintaining includes means for determining minimum acceptable price data based on sales activity. / Picioccio as applied to claim 34 and refer to reasoning under claim 9

As per Claim 40,

Picioccio discloses the means for identifying includes means for receiving minimum acceptable price data from an operator. / Picioccio as applied to claim 34 and refer to reasoning under claim 10

As per Claim 41,

Picioccio discloses means for determining whether the monetary value is at least as great as the lowest minimum acceptable price, and wherein the means for offering is operative only upon determining that the monetary value is at least as great as the lowest minimum acceptable price. / Picioccio as applied to claim 34 and refer to reasoning under claim 11

As per Claim 42,

Picioccio discloses the means for providing a predetermined amount of time during which the consumer may refuse to accept the product. / Picioccio as applied to claim 34 and refer to reasoning under claim 12

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As per Claim 43,

Picioccio discloses that the database includes expiration data for each of the plurality of products and the means for selecting operates based on the expiration data. / Picioccio as applied to claim 34 and refer to reasoning under claim 13

As per Claim 44,

Picioccio discloses that the database further includes profitability data for each of the plurality of products and the means for selecting operates based on the profitability data. / Picioccio as applied to claim 34 and refer to reasoning under claim 14

As per Claim 45,

Picioccio discloses that the database includes demand data for each of the plurality of products and the means for selecting operates based on the demand data. / Picioccio as applied to claim 34 and refer to reasoning under claim 15

As per Claim 46,

Picioccio discloses an automatic sales machine for selling a product, the product identity being concealed at the time of offer, the sales machine comprising:

means for maintaining a database of product data, including normal price data and minimum acceptable price data for each of a plurality of products; / refer to reasoning under claim 16 a.

means for receiving a first monetary value from a consumer; means for receiving a selection of a first product from the consumer; / refer to reasoning under claim 16 b.

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means for retrieving a price of the first product from the database of product data;
/ refer to reasoning under claim 16 c.

means for calculating a second monetary value, the second monetary value
being the difference between the first monetary value and the price of the first
product. / refer to reasoning under claim 16 d.

means for selecting a second product from among the plurality of products
based on the second monetary value and the minimum acceptable price data; / refer to
reasoning under claim 16 e.

means for outputting via an output device an offer of the second product to the
consumer; / refer to reasoning under claim 16 f.

means for determining whether the consumer accepts the offer; and / refer to
reasoning under claim 16 g.

means for dispensing the product if the consumer accepts the product, thereby
revealing the identity of the product to the consumer. / refer to reasoning under claim
16 h.

As per Claim 47,

Picioccio discloses the means for calculating an additional amount, the additional
amount being the difference between the monetary value and the minimum acceptable
price of the second product; and means for prompting the consumer to supply funds at
least equal to the additional amount. / Picioccio as applied to claim 46 and refer to
reasoning under claim 17

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As per Claim 48,

Picioccio discloses that the database includes complementary product data for each of the plurality of products and the means for selecting operates based on the initial product and the complementary product data for the initial product. / Picioccio as applied to claim 46 and refer to reasoning under claim 18

As per Claim 49,

Picioccio discloses a computer-readable storage medium encoded with processing instructions for implementing a method for selling a product from a vending machine, the product identity being concealed at the time of offer, the processing instructions for directing a computer to perform the steps of:

a. maintaining a database of product data, including normal price data and minimum acceptable price data for each of a plurality of products; / refer to reasoning under claim 1 a.

b. identifying a monetary value available for purchasing a product; / refer to reasoning under claim 1 b.

c. selecting a product from among the plurality of products based on the monetary value and the minimum acceptable price data; / refer to reasoning under claim 1 c.

d. offering the product to a consumer via an output device; / refer to reasoning under claim 1 d.

e. determining whether the consumer accepts the product; and / refer to reasoning under claim 1 e.

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f. dispensing the product if the consumer accepts the product, thereby revealing the identity of the product to the consumer. / refer to reasoning under claim 1 f.

As per Claim 50,

Picioccio discloses a computer-readable storage medium encoded with processing instructions for implementing a method for selling a product from a vending machine, the product identity being concealed at the time of offer, the processing instructions for directing a computer to perform the steps of:

maintaining a database of product data, including normal price data and minimum acceptable price data for each of a plurality of products; / refer to reasoning under claim 16 a.

receiving a first monetary value from a consumer; / refer to reasoning under claim 16 b.

receiving a selection of a first product from the consumer; / refer to reasoning under claim 16 c.

retrieving a price of the first product from the database of product data; / refer to reasoning under claim 16 d.

calculating a second monetary value, the second monetary value being the difference between the first monetary value and the price of the first product. / refer to reasoning under claim 16 e.

selecting a second product from among the plurality of products based on the second monetary value and the minimum acceptable price data; / refer to reasoning under claim 16 f.

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outputting via an output device an offer of the second product to the consumer; / refer to reasoning under claim 16 g.

determining whether the consumer accepts the offer; and / refer to reasoning under claim 16 h.

dispensing the product if the consumer accepts the product, thereby revealing the identity of the product to the consumer. / refer to reasoning under claim 16 i.

As per Claim 51,

Picioccio discloses a method for buying a product from a vending machine, the product identity being concealed at the time of purchase, the method comprising:

depositing a monetary value available for purchasing a product; / refer to reasoning under claim 49 b.

receiving an offer to purchase a product, the product having a concealed identity; / refer to reasoning under claim 49 d.

providing an indication of accepting the offer; and / refer to reasoning under claim 49 e.

receiving the product. / refer to reasoning under claim 49 f.

5. Claim 13 is rejected under 35 USC 103(a) as being unpatentable over Picioccio as applied to claim 1 and in view of Koga (Japan: H9-198554).

Koga discloses that the database further includes expiration data for each of the plurality of products and the step of selecting is further based on the expiration data.

/ Picioccio as applied to claim 1 and Koga: page 1

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure (et al's omitted):

"Data processing: PepsiCo." article teaches price flexibility

Maldanis teaches price modeling

Reuhl teaches price change

Konsmo teaches updating inventory

Wichter teaches inventory sensor

Center teaches complementary goods

Kovens teaches microprocessor control of vending machines

This action is NON-FINAL. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven R. Wasylchak whose telephone number is (703) 308-2848. The examiner can normally be reached on Monday - Friday from 7:00am to 6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vincent Millin, can be reached at (703) 308-1065. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-0040.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-5140.

Steven R. Wasylchak



Date: 7/8/01



VINCENT MILLIN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100